

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
13 January 2005 (13.01.2005)

PCT

(10) International Publication Number
WO 2005/003573 A1

(51) International Patent Classification⁷: **F16B 19/04**,
29/00, 31/04, 39/24, 43/00

(74) Agent: **GRIFFITH HACK**; Level 6, 256 Adelaide Ter-
race, Perth, Western Australia 6000 (AU).

(21) International Application Number:
PCT/AU2004/000898

(81) Designated States (*unless otherwise indicated, for every
kind of national protection available*): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(22) International Filing Date: 1 July 2004 (01.07.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
2003903340 1 July 2003 (01.07.2003) AU

(84) Designated States (*unless otherwise indicated, for every
kind of regional protection available*): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

(71) Applicant (*for all designated States except US*): **EZNU
PTY LTD** [AU/AU]; 6 Auriol Court, Carine, Western Aus-
tralia 6020 (AU).

(72) Inventors; and

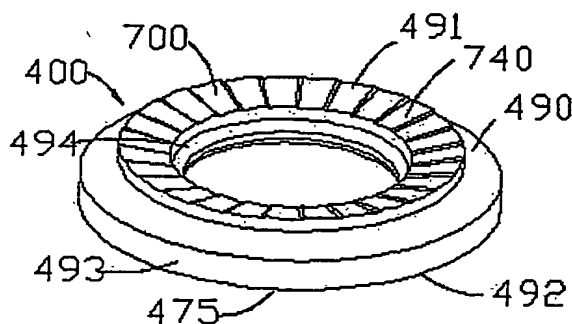
(75) Inventors/Applicants (*for US only*): **SMOLAREK,**
Hanna, Maria [AU/AU]; 6 Auriol Court, Carine, Western
Australia 6020 (AU). **DUTA, Gheorghe, Emil** [AU/AU];
162 Bridgewater Drive, Kallaroo, Western Australia 6025
(AU). **LIWSZYC, David** [AU/AU]; 13 Mayer Close,
Noranda, Western Australia 6062 (AU).

Published:

— with international search report

*For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.*

(54) Title: ELASTIC JOINT ELEMENT AND FASTENER ASSEMBLY INCORPORATING THE SAME



(57) Abstract: A fastener assembly for use in a joint in
a work-piece comprises a first fastener component for
extending through a hole in the work-piece, a second
fastener component and a resilient element. The first
component has a first contact portion for engaging the
work-piece. The second fastener component has a second
contact portion for co-operating with the first fastener
component to compressively load the work-piece thereby
forming the joint. The resilient element is located between
the first and second contact portions so that it is it is
compressed under load. The resilient element has a
first stiffness characteristic when subjected to loading
less than a predefined amount and has a higher stiffness
characteristic when subjected to loading more than the
predefined amount.



WO 2005/003573 A1